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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b)) Attorn y Dock t No. 42P17959 (maximum 12 characters) First Named Inventor Naik et al. Title: OPTIMIZED BACK-TO-BACK ENQUEUE/DEQUEUE VIA PHYSICAL QUEUE PARALLELISM Express Mail Label No. EV320119515US ADDRESS TO: Mail Stop Patent Application Commissioner for Patents

P.O. Box 1450

	Alexandria, Virginia 22313-1450				
		ELEMENTS upter 600 concerning utility patent application contents.			
1.	_X_	Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)			
2.		Applicant Claims Small Entity Status. (37 CFR 1.27)			
3.	<u>X</u>	Specification (Total Pages <u>28</u>) (preferred arrangement set forth below) - Descriptive Title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure			
4.	X	Drawings(s) (35 USC 113) (Total Sheets <u>6</u>)			
5.		Oath or Declaration (Total Pages) a Newly Executed (Original or Copy) b Copy from a Prior Application (37 CFR 1.63(d))			
6.		Application Data Sheet. (37 CFR 1.76)			
7.		CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)			
8.	a	Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) Computer Readable Form (CRF)			
	b	Specification Sequence Listing on: iCD-ROM or CD-R (2 copies); or ii paper Statements verifying identity of above copies			

ACCOMPANYING APPLICATION PARTS					
9 Assignment Papers (cover sheet & documents(s))					
10 a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)				
b. Power of Attorney	٠				
11 English Translation Document (if applicable)					
12 a. Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)					
b. Copies of IDS Citations					
13 Preliminary Amendment					
14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemiz	red)				
15 Certified Copy of Priority Document(s) (if foreign priority is claimed)					
16 Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must form PTO/SB/35 or its equivalent.	st attach				
17A Claim for Foreign Priority					
17B. X Other: separate sheet with title, express mail label number, copy of postcard, and attorney's signature					
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17C. X Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authori Patent and Trademark Office to (1) treat any concurrent or future reply the a petition for extension of time as incorporating a petition for extension of appropriate length of time and (2) charge all required fees, including extension of the sand fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-26	at requires of time for the ension of time				
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisit below and in the first sentence of the specification following the title (e.g., by way of prel amendment), or in an Application Data Sheet Under 37 C.F.R. 1.76:					
Continuation Divisional Continuation-in-part (Of Prior Application No.: Examiner Group Art Unit (which is a continuation/ divisional/ CIP of prior application no. which is a continuation/ divisional/ CIP of prior application no.					
Applicant(s): Also include a Preliminary Amendment to amend the specification to claim proceedings for CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior applicant oath or declaration is supplied under Box 5b, is considered a part of the disclosure of continuation or divisional application and is hereby incorporated by reference. The incorporated upon when a portion has been inadvertently omitted from the submitted application.	cation, from which the accompanying coration can only				
19. Correspondence Address Customer Number or Bar Code Label					
or (Insert Customer No. or Attach	Bar Code Label				
here) X Correspondence Address Below					
NAME Cory G. Claassen BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP					
ADDRESS 12400 Wilshire Boulevard					
Seventh Floor CITY Los Angeles STATE California ZIP CODE 90025					
Country U.S.A. TELEPHONE (206) 292-8600 FAX (206) 292-86	306				
Nam (PRINT/TYPE):Cofy G. Claass n Registration No.:50,29	6				
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FEE CALCULATION (continued) 3. ADDITIONAL FEES Larg Entity **Small Entity** Fee Fee Fee Fee Fee Paid Code (\$) Code (\$) **Fee Description** Surcharge - late filing fee or oath Surcharge - late provisional filing fee or cover sheet Non-English specification 2,520 2,520 For filing a request for ex parte reexamination 8,800 Request for inter parties reexamination 8,800 920* 920* Requesting publication of SIR prior to Examiner action 1,840* 1,840* Requesting publication of SIR after Examiner action Extension for reply within first month Extension for reply within second month Extension for reply within third month 1,480 Extension for reply within fourth month 1,005 2,010 Extension for reply within fifth month **Notice of Appeal** Filing a brief in support of an appeal Request for oral hearing 1,510 Petition to institute a public use proceeding 1,510 Petition to revive – unavoidable 1.330 Petition to revive - unintentional 1,330 Utility issue fee (or reissue) Design issue fee Plant issue fee **Petitions to the Commissioner** Processing fee under 37 CFR 1.17(q) **Submission of Information Disclosure Stmt** Recording each patent assignment per property (times number of properties) For filing a submission after final rejection (see 37 CFR 1.129(a)) Statutory Disclaimer For each additional invention to be examined (see 37 CFR 1.129(b)) Request for Continued Examination (RCE) Request for expedited examination of a design application Publication fee for early, voluntary, or normal pub. Publication fee for republication Request for voluntary publication or republication Processing fee under 37 CFR 1.17(i) (except provisionals) 1,330 1,330 Acceptance of unintentionally delayed claim for priority Other fee (specify) _ Other fee (specify) SUBTOTAL (3) \$_ *Reduced by Basic Filing Fee Paid SUBMITTED BY: Typed or Printed Name: // Date: /

Send to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Telephone Number: (206) 292-8600

Signature:

Reg. Number:

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Patent

Our Reference: 42P17959

OPTIMIZED BACK-TO-BACK ENQUEUE/DEQUEUE VIA PHYSICAL QUEUE PARALLELISM

Inventors: Uday R. Naik; Prashant R. Chandra; Alok Kumar and Ameya S. Varde

Respectfully submitted,

Cory G. Claassen Reg. No. 50,296

"Express Mail" mailing label number: _EV320119515US

Date of Deposit: _December 22, 2003

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Adrian Villarreal

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Adrian Villarreal

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Title:	Intel Corporation PTIMIZED BACK-TO-BACK E	NQU	EUE/DEQUEUE VIA PHYSICAL
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	ation - Design (pgs.)	-	Postcard
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